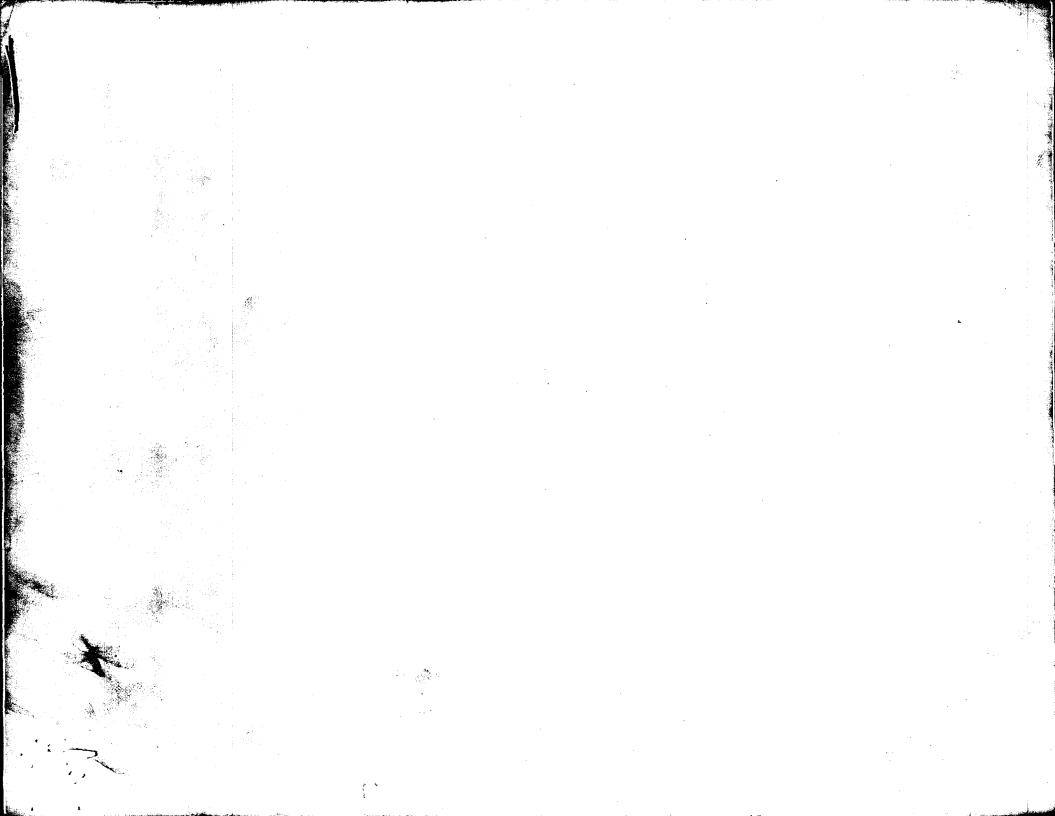
	Work	Order	ID	112712
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Wednesday, February 05, 2014 2:58:55 PM

112712

			- N						
Item ID: D3 Revision ID:	3391-025	,		Accept	*N9	0004	010 0	↑★ Setup St	art *NS1*
	Tube Asse	mbly						St	*NS2*
Required Date: 2/1	5/2014 4/2014	Start Qty: 1.0 Req'd Qty: 1.0		* *	Cust 1	Item ID: omer:		· .	
Reference:			<i>3</i> *	e				in a	
Approvals: Pr	rocess Pla	n:	Date H	2-6 Tooling: _	,	Date:			art *NR1*
Q	C:	. /	Date:	SPC (Y/N):		Date:		Si	*NR2*
Sequence ID/ Work Center ID	••	Operation Description	The state of the s	Set Up/ Run Hours	Тоо	ID Tool	# Plan Code	Accept Reject Qty Qty	Reject Insp. Number Stamp
Draw Nbr	Rev	ision Nbr			. •		•	•	
D3391	I				. "		5		
100 *1		MORI SEIKI CNC	يد مقهد	0.00		n neme			Kir
Mori Seiki CNC Lathe L	arge			ev: 🕰 & Dwg D3391 Rev: 🚣	<u>).</u>	1		1	July July
•	•							Se do a	14/02//
110	س.	QC2- Inspect parts	off machine FAI/FAIB	0.00					with " * * * * * * * * * * * * * * * * * *
1 ⁻ 10		•							
QC Quality Control	in the same	Memo		0.00					1 /man-1
				<	-m)				,
112	, **	QC5- Inspect part	completeness to step on V	V/O 0.00	191		%.		
110 QC Quality Control	,	Memo	Š	0.00	181	1 Tan			
Quanty Control	وإ	}			,			•	'3

Work Ord Wednesday, Fel				*112	2712	*						Page 2
Item ID: Revision ID:	D3391-025			Accept	*N.9	ററ	040	100)* ፡	Setup St	17	S1*
Item Name:	Aft Tube Ass	embly								St	op *N	S2*
Start Date:	2/5/2014	Start Qty: 1.00	*1*		Cust	Item I	D:					1,44
Required Date: Reference:	2/14/2014	Req'd Qty: 1.00	*1*		Cust	omer:						
Approvals:	Process Pla	an:	Date:	Tooling:		Da	ate:		I			R1*
t .	QC:		Date:	_ SPC (Y/N):		Da	ate:			St	^{op} *N	R2*
Sequence ID/ Work Center II	D	Operation Description	3.3.	Set Up/ Run Hours		l ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 HAAS 1		HAAS CNC VERTICAL Memo	MACHINING #1	0.00	onl	14/0	03/16	,		B		
HAAS CNC vertica	I machine #1	1-Machine a 2-Deburr	s per Folio FA 599 Rev:	<u>-4</u> & Dwg D3391 Rev:	<u> </u>							
130		QC2- Inspect parts off ma	achine FAI/FAIB	0.00	m/1416	03/	16					
120 QC Quality Control		Memo		0.00								<u> </u>
140		QC8- Inspect parts - seco	and check	0.00								DAS 08
140 QC Quality Control		Memo ***INSDEC	T INSIDE BORE***	0.00	y.a 1	4/03	81/18			ø_		9-89



Work Order ID 112712

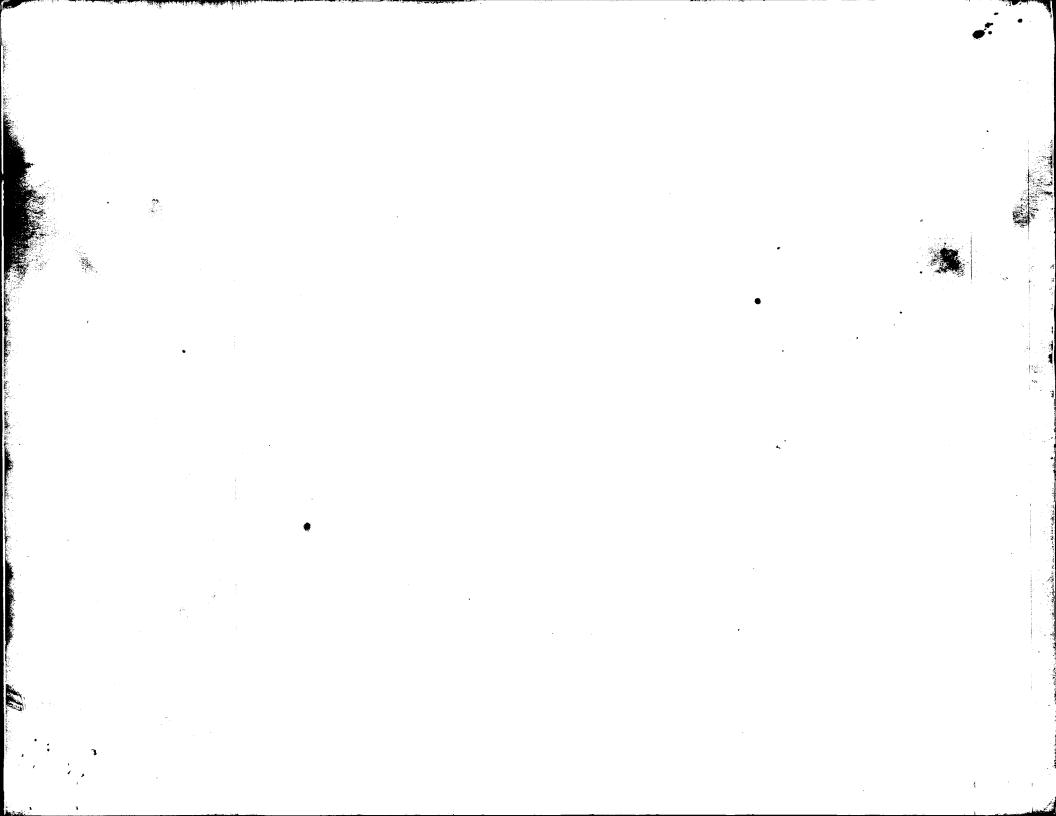
112712

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Item ID: Revision ID:	D3391-025		, , , , , , , , , , , , , , , , , , , ,	Accept	*N.9	೧೧೧ 4	.010)*	Setup Start	*N	S1*
Item Name:	Aft Tube Asse	embly							Stop	*N	S2*
Start Date:	2/5/2014	Start Qty: 1.00	*1	*	Cust	Item ID:					(),
Required Date:	2/14/2014	Req'd Qty: 1.00	*1:	*	Cust	omer:					
Reference:											
Approvals:	Process Pla	ın:	Date:	Tooling:		Date:]	Run Start	~1 <i>7</i> 1	R1*
	QC:		Date:	SPC (Y/N):		Date:			Stop	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Too	l ID Too	ol# Plan Code	Accept Qty		Reject Number	Insp. Stamp
150		Skidtubes		0.00							
150 Skidtubes	•	, .		0.00				De	14/03/1	9	
Skidtubes		Memo 1-Drill (PI)	LOT HOLE) aft cap b	oles per Dwg D3391 using D	T8803						
		·		,		1		•			
									1	/	
160				0.00					/	/	•
160		BENDING MACHINE	- SKIDTUBES					DC	14/03	/25	•
CNC Bend 1		Memo		0.00				/		/	
CNC Delta 100 Ben	der	Form as per	Dwg D3391 Using	Bend Prog 3391025	•				•	•	
170		QC5- Inspect part comp	leteness to step on W	/O 0.00							
170			-					M			
QC		Memo		0.00			DAS	- 4X	1) /·	4-3	75
Quality Control					47		03	\mathcal{B}	'	v	
				<i>)</i>			9-89				
			117	$\mathcal{Q}^{'}$							

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Work Order ID 112712
Wednesday, February 05, 2014 2:58:55 PM

				··· , ···								_
Item ID:	D3391-025			Accept	*N9	0004 0	710 0)* s	etup Star	t *N	S1*	-
	Aft Tube Asse	embly						•	Stop	*N	S2*	
Start Date:	2/5/2014	Start Qty: 1.00	*1*	t	Cust	Item ID:			4 7	į.		
Required Date:	2/14/2014	Req'd Qty: 1.00	*1*	k	Custo	omer:			* * * * * * * * * * * * * * * * * * *	ĝ.	**************************************	
Reference:			•						•			
Approvals:	Process Pla	n:	Date:	Tooling:		Date:		R	tun Star	~1/1	R1*	
•	QC:		Date:	SPC (Y/N):		Date:			Stop	*N	R2*	
Sequence ID/ Work Center II		Operation Description	•	Set Up/ Run Hours	Too	ID Tool	# Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	-
180 *120* Skidtubes		Skidtubes	,	0.00				De	14/0	3/3/		
Skidtubes	•	Memo 1-Open Aft o	can pilot hole to .208	0.00 8" as per Dwg D3391								
				809 as per Dwg D3391(Holes n	narked "A" Onl	ly.				·		
	•	Wearplate Jig		g D3391 using DT8878(Mid To	ube) & DT821	7		•	• •			
	, -		shoe holes as per DV	WG D3391 using DT8939 locat toles.	ing from 2	. /		•				
		5-Open wear	plate holes to 0.297"	and c'bore as per dwg D3391		<i>/</i> :				.•	•	
		6-Open up al	I float bag holes to 0	.328" and c'sink as per Dwg D3	3391.			•				
•		7-Deburr										
		8- Scribe bate	ch # on fwd end									
		•						,				



						İ							
Work Order Wednesday, Febru				*112	712	k				-			Page 5
Revision ID:	03391-025 Aft Tube Asser	nbly		Accept	*N9	იი	040	100)*	Setup	Start Stop	*N!	S1*
Start Date: 2 Required Date: 2 Reference:	/5/2014	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust I Custo		D:				•	"IN:	ラン *
	Process Plan	1:	Date:	Tooling: SPC (Y/N):			nte:]	Run	Start Stop	*NI	R1* R2*
Sequence ID/ Work Center ID 190 *1 QC Quality Control		Operation Description QC5- Inspect part complet Memo	eness to step on W/O	Set Up/ Run Hours 0.00 5/1 0.00 14/3/3	Tool	ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
200 *200* HandFinish Hand Finishing		Chemical Conversion Coa Memo	t per QSI005 4.1	0.00						(<u>Z</u>	14-3-3	<u>. </u>

210

QC7-Inspect Chemical Conversion Coat

0.00

210

1 & De 14/03/31

Quality Control

Memo

0.00

Work Ord Wednesday, Fe		1 2712 14 2:58:55 PM			*112	712*					Page 6
Item ID: Revision ID: Item Name:	D3391-025 Aft Tube Ass	ambly			Accept	*N900	004 0	100)*	Setup Star	1021
Start Date: Required Date Reference:	2/5/2014	Start Qty: 1.00 Req'd Qty: 1.00		*1* *1*		Cust Iten Custome				310	" *NS2*
Approvals:	Process Pla	an:	_ Date:_		Tooling: _ SPC (Y/N):		Date:			Run Star	"IMHI"
Sequence ID/ Work Center I 220 *20* Skidtubes	D	Operation Description Skidtubes			Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accept Qty	t Reject Qty	Reject Insp. Number // _y Stamp
Skidtubes		Memo 1- Instal spa A/R Magnexp. date: // cure time 12 2- Grind cro 3- Back drill 4- Touchup 5- Deburr	abond 6398 4/05/6 thrs as per 6 ssbolts flus 1 using #9 d	Batch: 127.	227	DC 17/03,	/31			·	
230		QC5- Inspect part compl	eteness to s	ep on W/O	0.00						DAS

0.00

Memo

D 14-04-02

oc *>3U*

Quality Control

Work Order ID 112712 *112712* Wednesday, February 05, 2014 2:58:55 PM Item ID: D3391-025 Accept *N900040100* Setup Start **Revision ID: Item Name:** Aft Tube Assembly **Start Date:** 2/5/2014 *1* Start Qty: 1.00 **Cust Item ID:** Req'd Qty: 1.00 **Required Date: 2/14/2014** *1* **Customer:** Reference: Run Start **Approvals:** Process Plan: **Tooling:** Date: Date: Stop QC: Date:_____ SPC (Y/N): Date: Operation Sequence ID/ Set Up/ Tool ID Tool # Plan Reject Accept Reject **Work Center ID Description Run Hours** Code Oty Oty Pressure Wash per QSI005 4.3 235 0.00 *225*

0.00

0.00

0.00

240

240 Powdercoat

HandFinish

Hand Finishing

Powder Coating

250

250

OC

Memo

FINISH TIME /

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

AND REALODINE AS PER PAR09-043

0.00

1 6 W-4-9. 888

QC3- Inspect Part Finish

Memo

0.00

Quality Control

Number Stamp

Insp.

W	ork	Order	ID	1127	712
7 7	VII	Oluci	\mathbf{L}	114	1 2

112712

Wednesday, Feb	oruary 05, 201	14 2:58:55 PM		1 1	// 1/								rage o	
tem ID: Revision ID:	D3391-025			Accept	*N9	იი	040	100)* s	Setup	Start Stop		S1*	=
item Name: Start Date: Required Date: Reference:	Aft Tube Asse 2/5/2014 2/14/2014	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust l	1	ID:				Stop	*N:	S2*	
Approvals:	Process Pla	ın:	Date:	Tooling:		Da	ate:	,	R	Kun	Start	*N	R1*	
	QC:		Date:	_ SPC (Y/N):		L Da	ate:				Stop	*N	R2*	
Sequence ID/ Work Center II 160	D	Operation Description		Set Up/ Run Hours	Tool	ID	Tool #	Plan Code	Accept Qty	Reje Qty		Reject Number	Insp. Stamp	_
260 HandFinish		HandFinishing Memo		0.00					11		✓	ell	14/04/	
land Finishing		1-Install inst 2-Install Aft A/ R Sikafl	erts as per Dwg D3391 Cap as per Dwg D3391 ex-241/-291 NA Z S x expiry date:	<u> 56</u> 9							•			
		3- INSTALI	L WEARPLATES AS PER	DWG		:								
⁷⁰ *クフハ*		QC5- Inspect part compl	eteness to step on W/O	0.00										
QC Quality Control		Мето		_{0.00} M ν	4112						,			
80 *280* Packaging		Identify as per dwg & Sto	ock Location: NA	0.00 PACK	Aging				_ l <u> </u>	4	J	l W	loul (x	
rackaging Packaging		Memo	0++211	0.00					í	/ _		1	04-2	
									1 X	•	X	14-	04-2	4

Work Order ID 112712

Quality Control

Wednesday, February 05, 2014 2:58:55 PM

Memo

112712

Page 9

Item ID: D3391-025 Accept *N900040100* Setup Start **Revision ID:** Stop **Item Name:** Aft Tube Assembly **Start Date:** 2/5/2014 Start Qty: 1.00 *1* **Cust Item ID: Required Date: 2/14/2014** Req'd Qty: 1.00 *1* Customer: Reference: Start Run **Approvals:** Process Plan: Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. **Work Center ID** Description Run Hours Code Qty Otv Number Stamp 290 QC21- Final Inspection - Work Order Release 0.00 *200* οć

0.00

DQA:			Date:													TOAPT
			D-4			WORK ORDER NON-	-CC	ONFO	RMANCE ,	/ UF						AEROSPACE
QA Closed:			Date:	•	•		1	1		1		wor	k Order up	date only		
Work Orde	er:					DISPOSITION					AGAINST [DEP	ARTMENT,	PROCESS		
	•					Rework	1		Skid-tube	\Box	Crosstube			Water Jet	Γ	Engineering
Part N	No.				i	Scrap	1		Machining	П	Small Fab	7	Pro	d. Eng. Coor.		Quality
	•	· · · · · · · · · · · · · · · · · · ·				Use-as-is		l .	noforming	П	Finishing			re/Packaging		Other
NCR I	۷o.					Suspected Unapproved]		Large Fab		Composite			Supplier		
Root					Desc	ription of work order update		Initial	1	Act	ion	-	Sign &			
Cause		Date	Step	Qty	Desc	or non-conformance	ı	ief Eng		1	iption		Date	Verificatio	n	QC Inspector
Design		Dute	Step	۵.,		or non-comormance	-	iler Elig			iption.	+	Dute	Vermeatio	·· <u> </u>	Qe mspector
Doc/Data																
Equip/Tooling												l				
Handling/Pre																
Material										1						
Operator																
Offset/Setup										1						
Process																
Supplier										İ						
Training																: .
Transport																
Unapproved																
							FA	ULT CAT	TEGORY							
Landi	ng (Sear				General		_			_			i		
		Bending			L	Bend	L	Folio/F	Program	} !	L		Outside Dim	ensions		Pressure/Forced
		Centre N	ot Concer	ntric	L	BOM/Route		Grain				\Box	Over/Under	tolerance		Set-up
		Cracks				Broken/Damage/Defect		Hardwa	ire		Ĺ	P	art Incorred	i		Temperature/Cure
		Crimp/Kii	nk/Ripple	/Wave		Burrs		Inspect	ion Incomplet	te/Un	qualified	P	art Lost/Mi	ssing		Weld
		Cuffs				Contamination		Instruct	tions Incompl	ete/L	Inclear	P	art Moved			Wrong Stock Pulled
		Crushing				Countersink		Misalig	gned/off cen	ter		P	ositioned V	Vrong		•
		Heat Trea	at			Cut Too Short		Mislabe	eled	!	L	P	ower Loss/	Surge		Other
		Inspectio	n Strip in	Tube		Drawing	·	Misrea	d			_				
	L	Marks/Cl	natter			Drill Holes		Off-set				_				
		Turning S	Sequence			Finish		-	Calibration			_				
1		lwave/Tw	vist in Tub	e e		Fit/Function		Out of	Sequence							

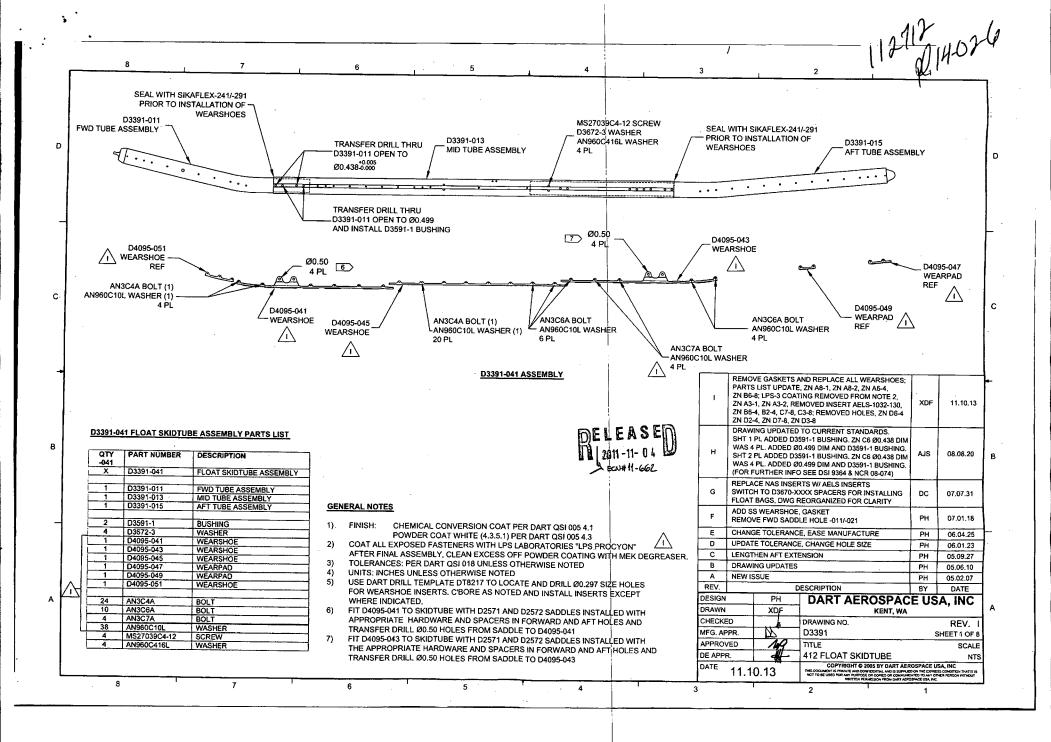
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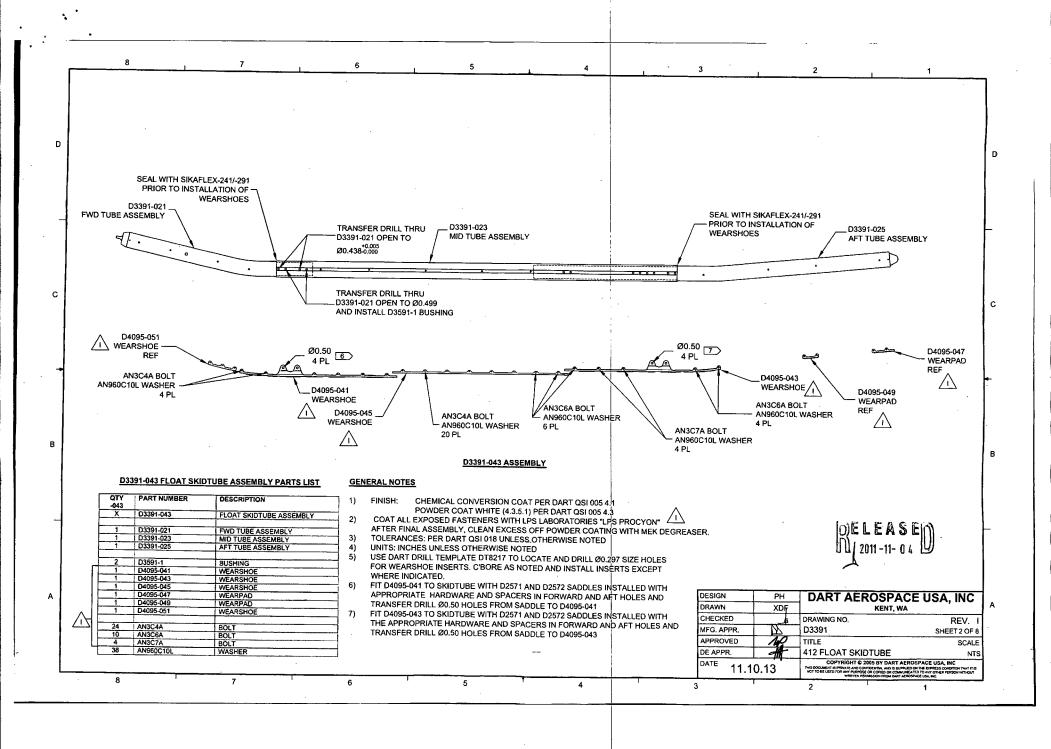
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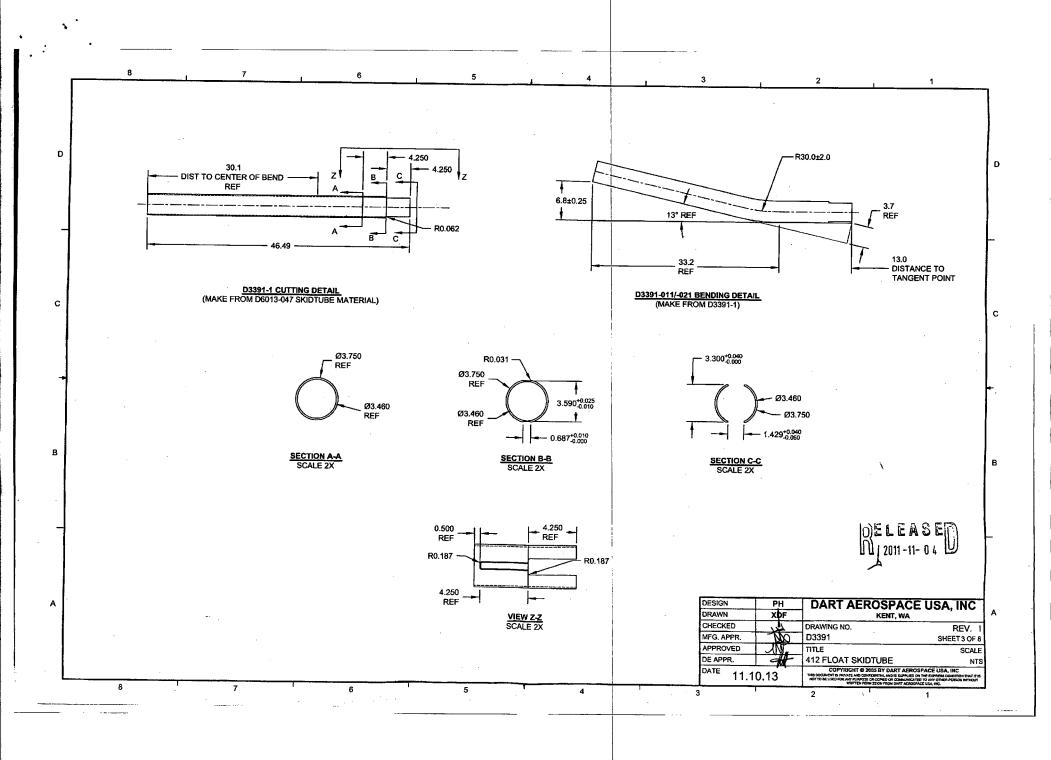
Picklist Print								Page 2
Wednesday, February 05, 2014 2:58:5	59 PM							- 1.61
Work Order ID: 112712		*11	2712*				.,=,	
Parent Item: D3391-025			3391-025*					
Parent Item Name: Aft Tube Assembly		1 /.	1. 1.9. 1 - (12.)			Start Date:	2/5/2014	Required Date: 2/14/2014
						Start Qty:		Required Qty: 1.00
D3670-4-200	Manufactured	No		230	Each	351.0000 4	4	/ /
D3670-4-200						**	De 14/	03/3/
			Location	Loc	Oty	Loc Code	,	,
			FG		10			
			87709 LG001		10			
			103880		341 60			
			109108		242			
D2646	Manufactured	No	96240	270	39	44,0000	(4)	
D2646	Manufactured	140		270	Ea¢h	23.0000 1	1	
Aft Cap					,	**		H 14/04/14
			Location	Loc	Oty	Loc Code	•	
			FG		4	0113830		
			85848 90495		2 2	011 5 0 3 0	X \	
			FP001		19			
			103306		18			
D3672-1	Man Cont 1	No	107857	220	1		*	
	Manufactured	NO		270	Each	850.0000 2	2	
D3672-1 Phenolic Washer						**		11/01/14
			Location	Loc	Oty	Loc Code		
			FG		10			
			85222 ST060		10		<u></u>	
			103845		840 100			
			93886		522			
			99099		218		_V2	
Wednesday, February 05, 2014 2:58:59	9 PM		Shop Pack	et Print				Page 2

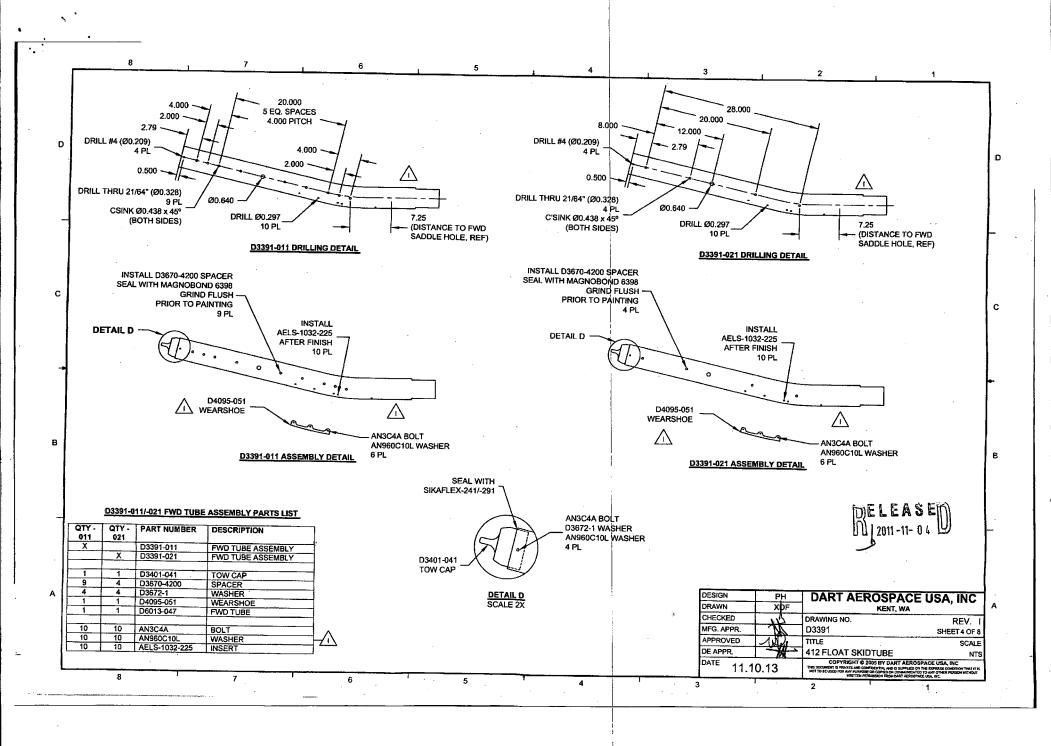
Picklist Print Wednesday, February 05, 2014 2:58:5	59 PM							Page 3
Work Order ID: 112712 Parent Item: D3391-025 Parent Item Name: Aft Tube Assembly			12712* 3391-025*			Start Date: Start Qty:		Required Date: 2/14/2014 Required Qty: 1.00
ALS4-1032-130 AELS4-1032-130	Purchased	No		260	Eac	h 57.0000 14	14	
AI S4-1032-130						**	<u> </u>	idoglis
ALS4-1032-225 AELS8-1032-225 *AI S4-1032-225*		No	<u>Location</u> st510 M126109	<u>L</u> 270	oc Oty 57 57 Eac	<u>Loc Code</u> M 12名しより h 101.0000 8	8 H	ulo al la
AN3C4A *AN3C4A* Bolt	Purchased	No	Location FG M127028 ST280 M127028 st555 M127092	<u>L</u> 270	30 30 10 10 61 61 Eac	Loc Code 1/1/28/7 th 2,616.000 6	18 6.	
			Location FG 122814 ST513 125388 M127410 M127832	Ľ	20 20 2596 1835 261 500	<u>Loc Code</u> N1112 & 739	_ x 6	-
Wednesday, February 05, 2014 2:59:0	0 PM		Shop Pacl	ket Print				Page

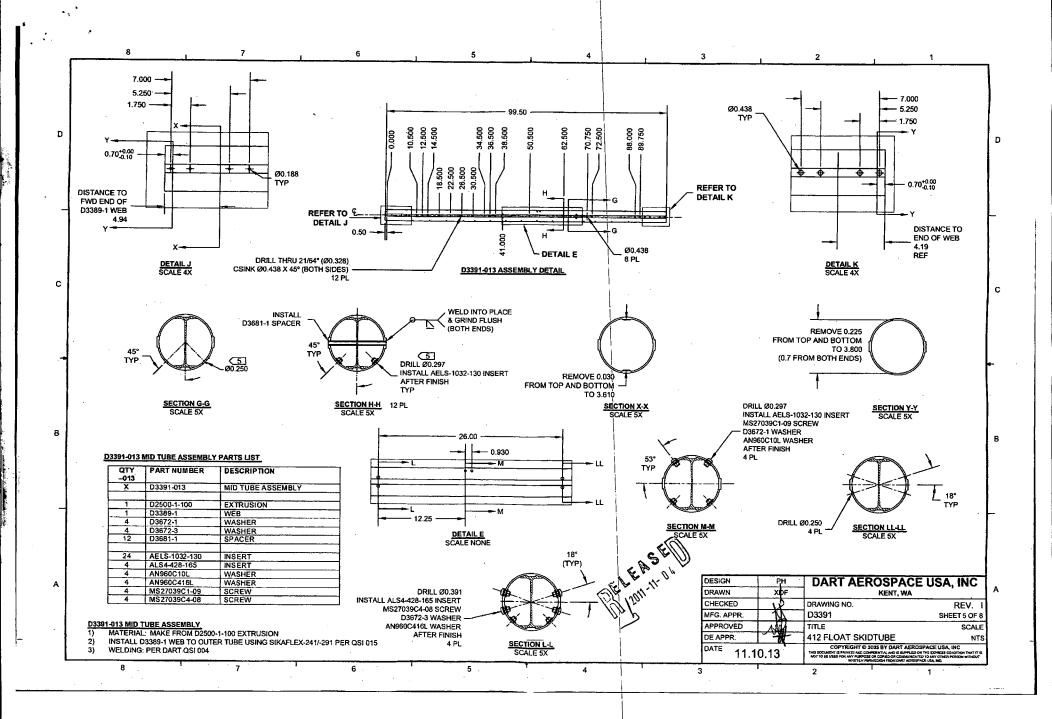
								
Picklist Print								Page 4
Wednesday, February 05, 2014 2	:59:00 PM							6
Work Order ID: 112712		*1	12712*				_	
Parent Item: D3391-025)3391-025 [,]		ļ			
Parent Item Name: Aft Tube Asse	embly	1 2	7.3.3.91-(1/:)			Start Date:	2/5/2014	Required Date: 2/14/2014
					i	Start Qty:	1.00	Required Qty: 1.00
AN3C5A	Purchased	No		270	Each	1,881.000 4	4	,
AN3C5A						**	<u> </u>	Linodis
			Location	Loc C	ty	Loc Code		
			FG		5			<u> </u>
			122800 ST350	1	5 876 ₁			_
			M128057		876		- x 4	_
NAS1149C0332R	Purchased	No		270	Each	9,652.000 10	10	
NAS1149C033	32R					**		Il Modis
			Location	Loc C	<u>oty</u>	Loc Code		
			GA		169	11120591		_
			125654 st510		169 483		X((<u>)</u>
			m126319		865			_
			m127306		500			
			m127410 m127831		000 118			_
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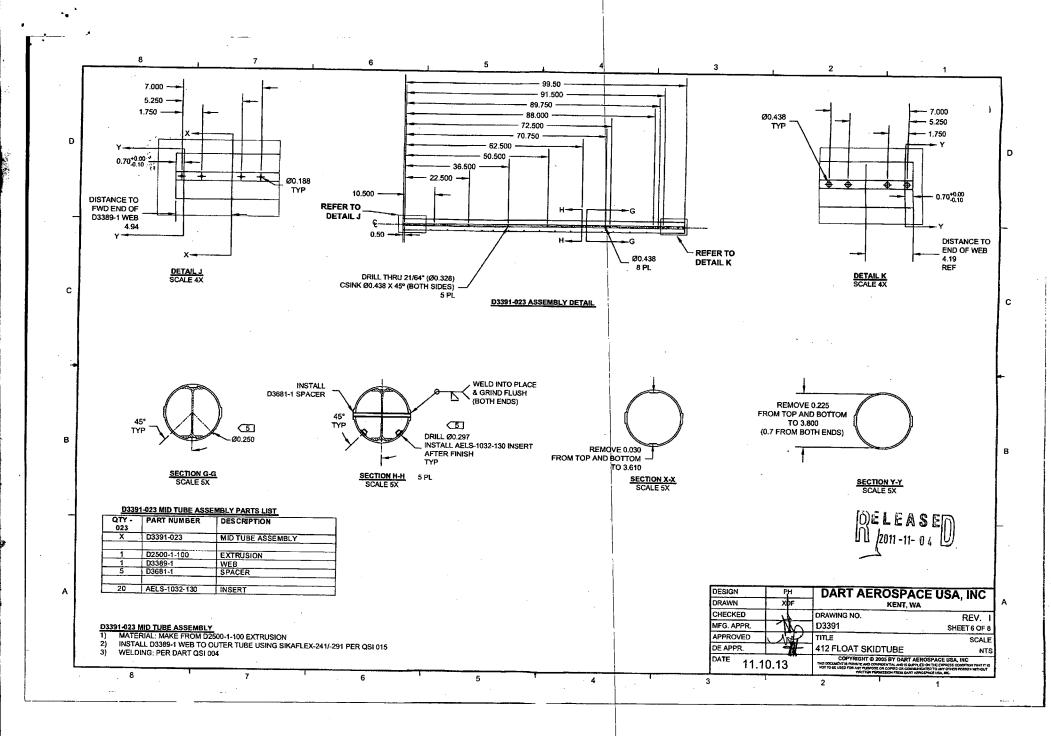


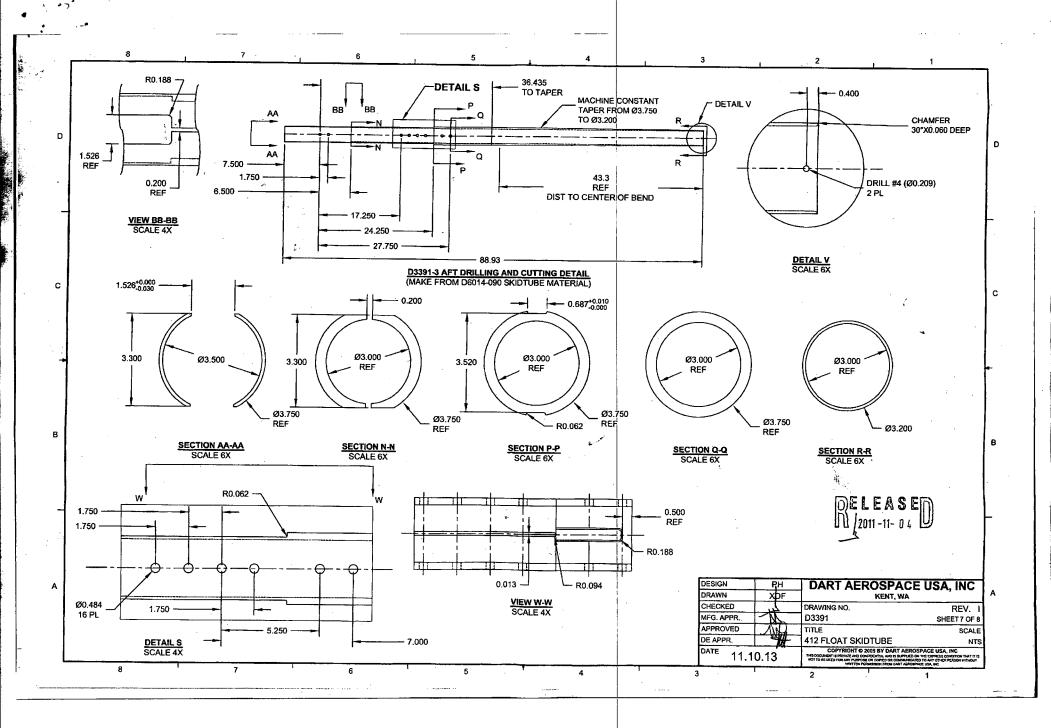


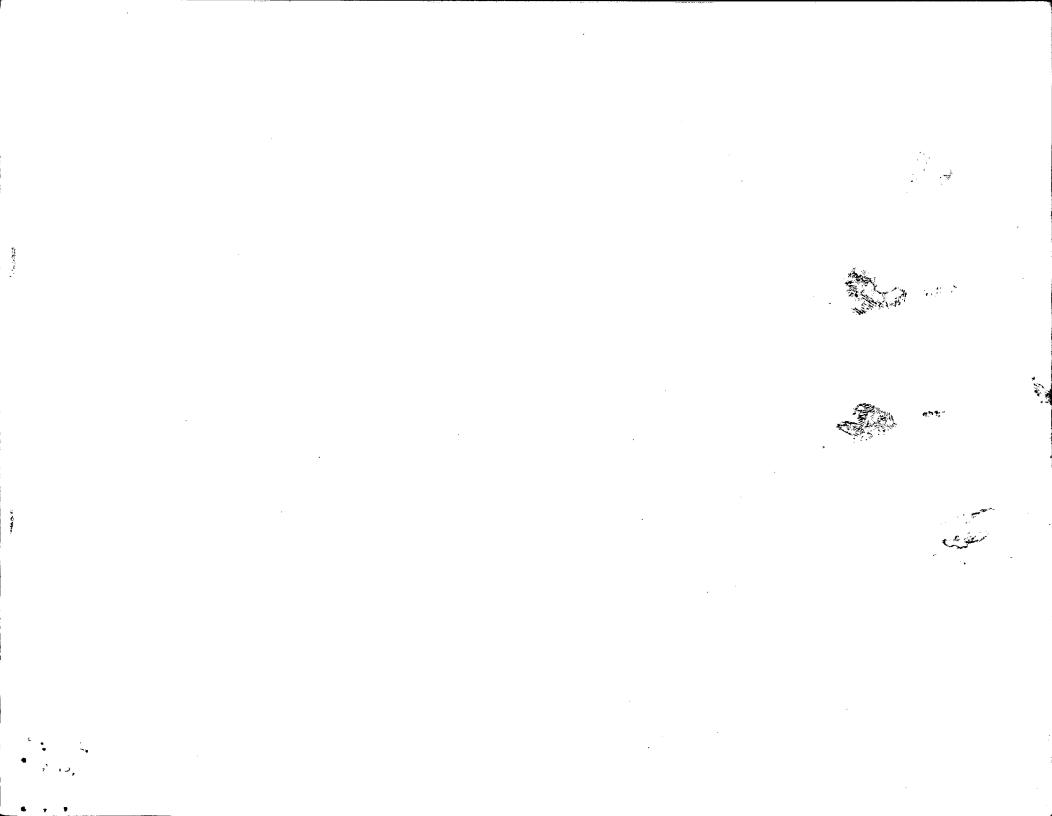


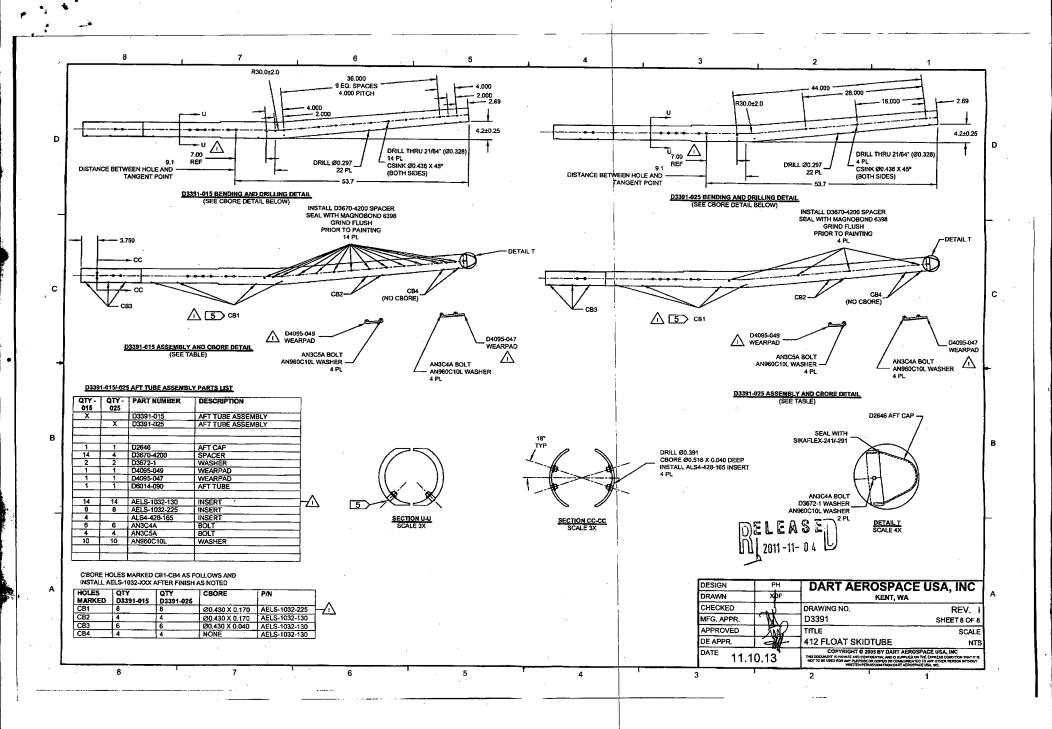












DART AEROSPACE LTD	Work Order:	112712
Description: Float Skidtube (412)	Part Number:	D3391-3
Inspection Dwg: D3391 Rev: I		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
		Lat	he Section	n		
14.000	+/-0.010	14.000	_		TAPE	16-25
3.500	+/-0.010	3.503			'VERN	04-25 04-08
Ø3.200	+/-0.010	3.202			VERN	
Ø3.750	+/-0.010	3.750			VERN	
30° x 0.060 chamfer	+/-0.010	900 K.060	-		VERN	. 4.
88.93	+/-0.030	88.96	. #		TAPE	L6-25

Measured by: 9m2n L/KC Date: 14/02/19

Audited by: 5M3

Date: 14/02/19

_		НА	AS Sectio	n	,		Contract of the Contract of th
1.526	+0.000/-0.030	1.505	_		Vern	11-06	
7.500	+/-0.010	7.500			11		
27.750	+/-0.010	27.750	_		n-tope	11-08	
31.750	+/-0.010	31.750			11 200		
35.250	+/-0.010	35.250			11 3		
3.300	+/-0.010	3.298			Vern	71-66	
0.200	+/=0.010	.200					
3.520	+/-0.010	3.524					jh:
0.687	+0.010/-0.000	.687					
*\ R0.062	+/-0.010	R.062	/				
Ø0.484	+0.005/-0.001	8.487)		

Meas	ured by: DAS	Date: 14/05
Aud	ited by: 3.A 08	Date: 14 03 18
Data	Gh	Revised by Approved
Date	Change	
06.04.24	New Issue P/O`D3391-015/-025	KJ/JLM
06.06.19	Dwg revision update	KJ/JLM
7.04.20	Ø0.208 dimension removed	KJ/JLM
7.09.06	0.400 dimension removed	KJ/JLM
7.11.23	Dwg Rev. updated	KJ/EC/DD
.04.27	Dimensions updated per Rev H and NCR09-028	KJ/JLM
11.16	Dimension 0.200 removed	KJ
06.21	Dimension 44.995 removed	KJ
₹ ₹ ₹ ₹ ₹ ₹ ₹	Dwg Rev updated	KJ
5.23	Dimension updated	KJ
ົ່ນ.15	88.93 dimension removed	KJ M
1.28	88.93 dimension added	KJ 🗫 🔼

